

ABSTRACT OF THE DISCLOSURE

An illumination apparatus includes an inner-surface reflecting type integrator, an optical system for directing a beam from a light source to a portion
5 of incidence of the inner-surface reflecting type integrator, an wave-front splitting type integrator, an image-forming optical system for arranging the portion of incidence of the inner-surface reflecting type integrator approximately conjugate with a portion of incidence of the wave-front splitting type integrator, and for directing a beam from the beam mixer to the wave-front splitting type integrator,
10 and an irradiating optical system for superimposing multiple beams from the wave-front splitting type integrator on a plane to be irradiated, wherein a stop is provided at or near the portion of exit of the inner-surface reflecting type integrator.